| Business Analysis<br>Summary | KPIs by Month | Total Sales by<br>Category and Subcate | Order Count and Sales | Order Value<br>Distribution | Order Count and On<br>Time Rate Trends | Customer Review<br>Trends | Customer Reviews by<br>Review Category | Seller Insights |
|------------------------------|---------------|--|-----------------------|-----------------------------|--|---------------------------|--|-----------------|
|                              |               |  |                       |                             |  |                           |  |                 |



Olist is a comprehensive e-commerce platform that bridges the gap between SMBs and large online marketplaces. It offers a range of services, including marketplace integration, logistics support, customer service, and analytics, helping sellers streamline their operations and increase their sales. Through its revenue-sharing and subscription-based model, Olist aligns its success with the success of its sellers, driving growth and efficiency in the e-comme.

#### **Key Insights:**

#### **Product Categories:**

- Top categories include Home, Sports and Leisure, and Electronics
- Products vary widely in price, from high-value items like furniture to more affordable products like garden tools

#### **Order Value Distribution:**

- Average order value is R\$138, significantly higher than the median order value of R\$87 suggesting a right-skewed distribution with a long tail of higher-value orders
- Higher-value orders, although fewer in number, have a substantial impact on total sales

#### **High-Value Orders:**

- Olist has 1.7k orders that are over R\$1,000 in value contributing to R\$1.5M in total sales
- The 1.7k orders make up less than 2% of total orders but account for over 11% of total sales
- About 75% of orders are roughly under R\$150
- The top 25 percentile by order value show a range of roughly R\$150 to as high as R\$13k
- high-value orders suggests the occurrence of bulk purchases or the sale of big-ticket items

#### Customer reviews:

- High variability in sales month to month contributed to poor delivery performance and lower customer satisfaction scores

#### Sellers:

..

The dataset has been anonymized and was generously provided by Olist.

### **Possible Strategic Initiatives:**

#### **Target Marketing and Customer Segmentation:**

- Segment high-value and low-value customers
- Implement a loyalty program or exclusive benefits for high-spending customers to increase retention and encourage repeat purchases
- Segment based on categorical interests

#### **Enhanced Sales Forecasting**

- Inaccurate sales forecasts can have a ripple effect and can lead to issues with inventory, delivery performance, and customer satisfaction
- Forecasting is the foundational piece in planning
- Understand if logistics partners have optimal capacity

#### Seller Management:

- Provide additional support and resources to top sellers who contribute significantly to total sales
- This could include dedicated account managers, advanced analytics tools, and marketing support
- Implement programs to help smaller sellers grow and improve their performance
- This could involve training, resources on best practices, and incentives for meeting sales targets

| Business Analysis<br>Summary | KPIs by Month | Total Sales by<br>Category and Subcate | Order Count and Sales | Order Value<br>Distribution | Order Count and On<br>Time Rate Trends | Customer Review<br>Trends | Customer Reviews by<br>Review Category | Seller Insights |
|------------------------------|---------------|--|-----------------------|-----------------------------|--|---------------------------|--|-----------------|
|                              |               |  |                       |                             |  |                           |  |                 |

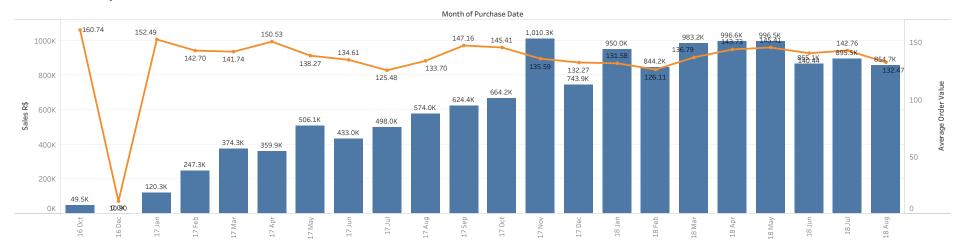


# KPIs by Month

## KPIs

|              | Month of Purchase Date |        |         |         |         |         |         |         |         |         |         |         |           |         |         |         |             |
|--------------|------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|-------------|
|              | 16 Oct                 | 16 Dec | 17 Jan  | 17 Feb  | 17 Mar  | 17 Apr  | 17 May  | 17 Jun  | 17 Jul  | 17 Aug  | 17 Sep  | 17 Oct  | 17 Nov    | 17 Dec  | 18 Jan  | 18 Feb  | 18 Mar 18 / |
| Total Sales  | 49,508                 | 11     | 120,313 | 247,303 | 374,344 | 359,927 | 506,071 | 433,039 | 498,031 | 573,972 | 624,402 | 664,219 | 1,010,271 | 743,914 | 950,030 | 844,179 | 983,213     |
| Order Count  | 324                    | 1      | 800     | 1,780   | 2,682   | 2,404   | 3,700   | 3,245   | 4,026   | 4,331   | 4,285   | 4,631   | 7,544     | 5,673   | 7,269   | 6,728   | 7,211       |
| AOV          | 160.74                 | 10.90  | 152.49  | 142.70  | 141.74  | 150.53  | 138.27  | 134.61  | 125.48  | 133.70  | 147.16  | 145.41  | 135.59    | 132.27  | 131.58  | 126.11  | 136.79      |
| On Time Rate | 82.7%                  | 100.0% | 91.0%   | 90.1%   | 90.6%   | 89.5%   | 92.9%   | 93.7%   | 93.5%   | 94.0%   | 92.6%   | 92.7%   | 84.6%     | 89.9%   | 91.7%   | 83.7%   | 78.7%       |
|              |                        |        |         |         |         |         |         |         |         |         |         |         |           |         |         |         |             |

## Sales and AOV By Month

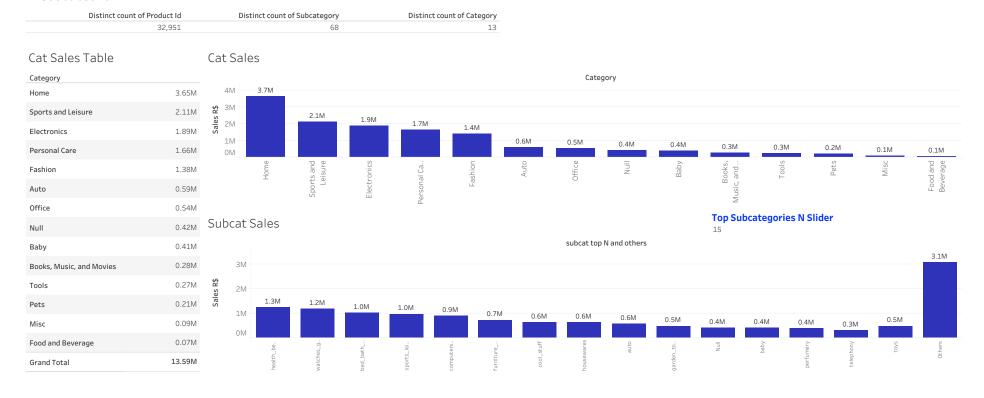


Business Analysis KPIs by Month Total Sales by Category and Subcate.. Order Count and Sales Order Value Distribution Time Rate Trends Customer Review Customer Review Customer Review Customer Review Category



# Total Sales by Category and Subcategory

#### **Product Count**



Business Analysis Summary KPIs by Month

Total Sales by Category and Subcate.. Order Count and Sales

Order Value

Order Count and On Time Rate Trends Customer Review Trends Customer Reviews by Review Category Seller Insights



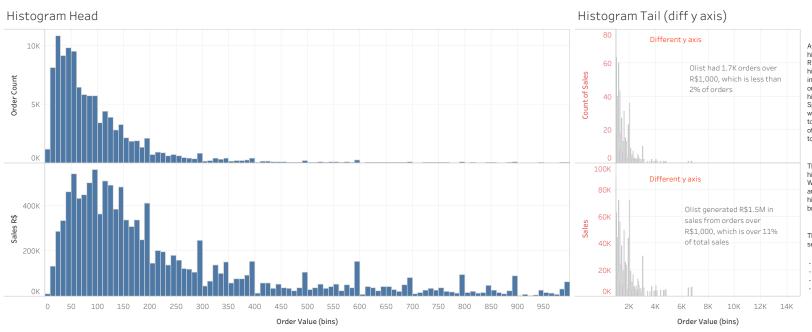
# Order Count and Sales

**Order Value Bin Size** 

10

#### Descriptive Statistics

| AOV    | AOV Standard Deviation | Max AOV   | Median AOV | Min AOV | Order Count | Total Sales |
|--------|------------------------|-----------|------------|---------|-------------|-------------|
| 137.75 | 210.64                 | 13.440.00 | 86.90      | 0.85    | 99.441      | 13.59M      |



Average order value for Olist has a much higher mean of R\$1.38 than the median of R\$87, which suggests a long tail of higher-value orders. This is visually evident in the histograms, where the distribution of order values shows a significant number of high-value orders that elevate the average. Specifically, we can see that 1.7k orders were over R\$1000 and made up R\$1.5M in total sales. This indicates that less than 2% of total orders contributed to over 11% of total sales.

This disparity highlights the importance of high-value orders in driving overall revenue. While the majority of orders are clustered around lower values, the presence of these high-value orders significantly impacts the business's financial performance.

This insight can guide strategic decisions in several areas:

- customer segmentation
- product and pricing
- inventory management - sales and revenue forecasting

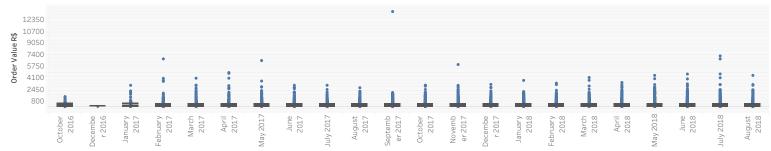
Business Analysis KPIs by Month Total Sales by Category and Subcate.. Order Count and Sales Distribution Order Count and On Customer Review Customer Reviews by Seller Insights

Time Rate Trends Trends Review Category



## Order Value Distribution

### Boxplots



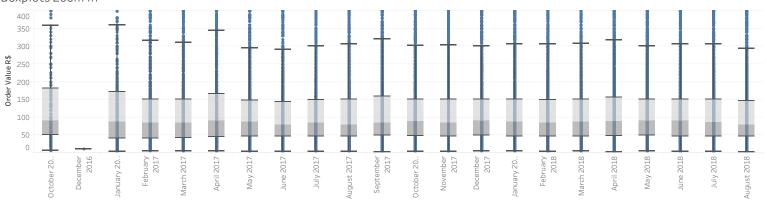
The boxplots provide insightful visual representations of order values across different months. They reveal that about 75% of the orders are roughly under R\$150 for the majority of months where we have sales data. This indicates that the bulk of Olist's orders are relatively modest in value.

Additionally, the boxplots show that the maximum order value has reached as high as R\$13,000, and orders beyond the 75th percentile can vary drastically in size. This wide range of order values could indicate the following:



- High variety in product offerings
- High variability in product pricing
- including big-ticket items
- Selling items in bulk

### Boxplots Zoom In



Business Analysis Summary

KPIs by Month

Total Sales by Category and Subcate.. Order Count and Sales

Order Value

Order Count and On Time Rate Trends Customer Review Trends Customer Reviews by Review Category Seller Insights

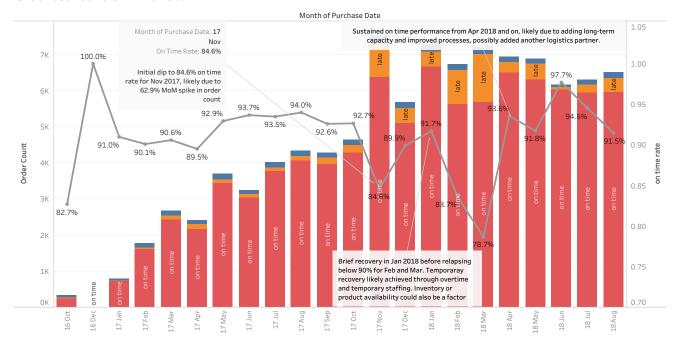
# olist

# Order Count and On Time Rate Trends

### Order Count and Sales By Month

| Month of      | On Time |             |             |
|---------------|---------|-------------|-------------|
| Purchase Date | Rate    | Order Count | Total Sales |
| 16 Sep        | 0.0%    | 4           | 267         |
| 16 Oct        | 82.7%   | 324         | 49,508      |
| 16 Dec        | 100.0%  | 1           | 11          |
| 17 Jan        | 91.0%   | 800         | 120,313     |
| 17 Feb        | 90.1%   | 1,780       | 247,303     |
| 17 Mar        | 90.6%   | 2,682       | 374,344     |
| 17 Apr        | 89.5%   | 2,404       | 359,927     |
| 17 May        | 92.9%   | 3,700       | 506,071     |
| 17 Jun        | 93.7%   | 3,245       | 433,039     |
| 17 Jul        | 93.5%   | 4,026       | 498,031     |
| 17 Aug        | 94.0%   | 4,331       | 573,972     |
| 17 Sep        | 92.6%   | 4,285       | 624,402     |
| 17 Oct        | 92.7%   | 4,631       | 664,219     |
| 17 Nov        | 84.6%   | 7,544       | 1,010,271   |
| 17 Dec        | 89.9%   | 5,673       | 743,914     |
| 18 Jan        | 91.7%   | 7,269       | 950,030     |
| 18 Feb        | 83.7%   | 6,728       | 844,179     |
| 18 Mar        | 78.7%   | 7,211       | 983,213     |
| 18 Apr        | 93.6%   | 6,939       | 996,648     |
| 18 May        | 91.8%   | 6,873       | 996,518     |
| 18 Jun        | 97.7%   | 6,167       | 865,124     |
| 18 Jul        | 94.5%   | 6,292       | 895,507     |
| 18 Aug        | 91.5%   | 6,512       | 854,686     |
| 18 Sep        | 0.0%    | 16          | 145         |
| 18 Oct        | 0.0%    | 4           |             |
| Grand Total   | 90.4%   | 99,441      | 13,591,644  |

### Order Count and On Time Rate

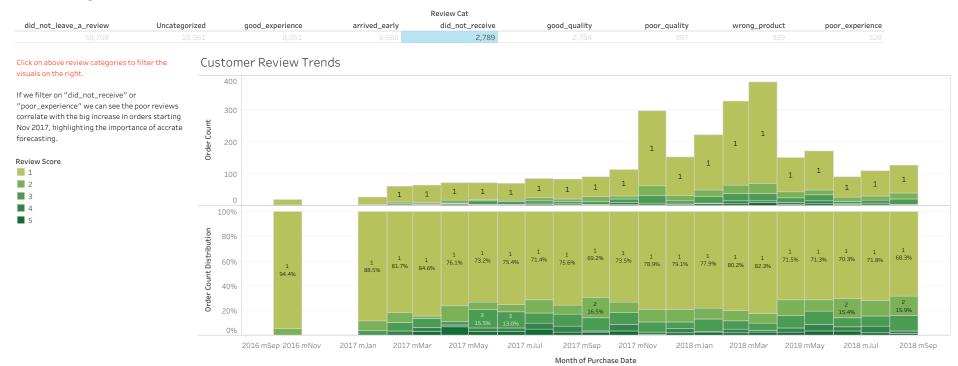


Business Analysis KPIs by Month Total Sales by Category and Subcate.. Order Count and Sales Order Value Distribution Order Count and On Time Rate Trends Customer Review Trends Customer Reviews by Review Category



# **Customer Review Trends**

### **Review Categories**



Business Analysis KPIs by Month Total Sales by Category and Subcate.. Order Count and Sales Order Value Order Count and On Time Rate Trends Trends Customer Reviews by Review Category



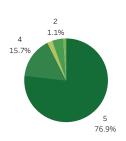
# Customer Reviews by Review Category

### Review Score by Category

|                 |       | Rev | iew Score |       |        |
|-----------------|-------|-----|-----------|-------|--------|
| Review Cat      | 1     | 2   | 3         | 4     | 5      |
| good_experience | 157   | 86  | 350       | 1,268 | 6,190  |
| arrived_early   | 84    | 44  | 166       | 866   | 5,500  |
| did_not_receive | 2,141 | 274 | 232       | 77    | 65     |
| good_quality    | 45    | 34  | 177       | 552   | 1,976  |
| poor_quality    | 241   | 58  | 65        | 18    | 15     |
| wrong_product   | 216   | 42  | 36        | 21    | 24     |
| poor_experience | 209   | 43  | 31        | 16    | 29     |
| Grand Total     | 3,093 | 581 | 1,057     | 2,818 | 13,799 |

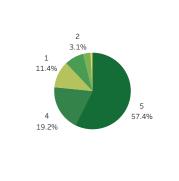
Table excludes orders where no review was provided and uncategorized reviews

# Review Score Pie Chart (Good Experience)



Good Experience: This review category had the most 5 reviews and shows how a good experience translates to high review scores. Over 90% of reviews in this category scored between 4 and 5.

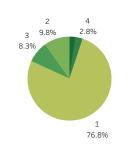
### Review Score Pie Chart



**Crossfilter:** Filter by clicking categories in the table to the left



# Review Score Pie Chart (Did Not Receive)



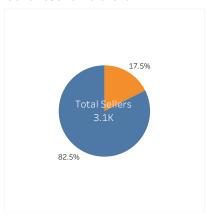
Did Not Receive: This review category had the most 1 reviews and shows how critical it is to get customers their orders on time. Over 85% of reviews in this category scored between 1 and 2.

Business Analysis KPIs by Month Total Sales by Order Count and Sales Order Value Order Count and On Customer Review Customer Reviews by Seller Insights Summary Category and Subcate.. Time Rate Trends Trends Review Category

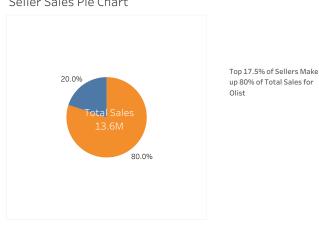


# Seller Insights: Pareto Principle or 80/20 Rule



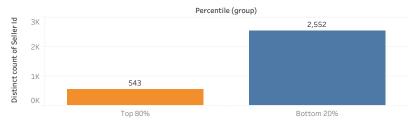


### Seller Sales Pie Chart



Percentile (group) Top 80% Bottom 20%

## Seller Count Percentile Group



## Seller Sales Percentile Group

